



Release Notes for Cisco Access Registrar, 5.1

Cisco Access Registrar is a high performance, carrier class RADIUS/Diameter solution that provides scalable, flexible, intelligent authentication, authorization, and accounting (AAA) services and Diameter signaling traffic control.

Cisco Access Registrar comprises a RADIUS/Diameter server designed from the ground up for performance, scalability, and extensibility for deployment in complex service provider environments including integration with external data stores and systems. Session and resource management tools tracks user sessions and allocate dynamic resources to support new subscriber service introductions.

Cisco Access Registrar Diameter Routing Agent (DRA) provides such infrastructure, allowing complex mesh interconnections of these new network elements in order to:

- adequately manage the traffic
- perform appropriate load balancing for congestion control and roaming support
- provide intelligent message routing (routing to the appropriate elements) that can be customized to easily adopt to unique requirements
- allow binding of different protocol interfaces corresponding to a subscriber.



Note

Cisco AR 5.1 can be used with Solaris 10, or Red Hat Enterprise Linux (RHEL) 5.3/5.4/5.5 32-bit/64-bit operating system using kernel 2.6.18-128.el5 or later versions of 2.6, and Glibc version: glibc-2.5-34 or later.



Note

Support for RHEL 5.11 is available from Access Registrar version 5.1.0.10.

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Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

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New Features In Cisco Access Registrar 5.1

Cisco Access Registrar 5.1 introduces these features.

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Diameter Proxy Service

Diameter proxy service works in tandem with the rule policy engine to perform the routing for multiple realms or applications. The following are the multiple peer policies supported by the proxy service:

- RoundRobin
- FailOver
- IMSI Range Based.

Diameter Messages - Weight-based Load Balancing

In Cisco Access Registrar 5.1, a Weight property is added to a peer in a diameter service. If the MultiplePeerPolicy in service is set to 'Round Robin', the service sends the request to the remote peer in proportion to the weight configured in the peer list. By default, the weight of remote peer is set 0. The weights need to be configured as multiples of 10 and the sum of the weights configured in the peer list should be equal to 100. For example, if you have two remote peers with the weights configured in the

ratio of 50:50, both the remote peers will receive an equal number of requests. If you have two remote peers with weights configured in the ratio of 70:30, Cisco Access Registrar will send 70% of the incoming traffic to one peer and the remaining 30% to another peer for the service.

IMSI Range Based

When the International Mobile Subscriber Identity (IMSI) range mode is selected, Cisco Access Registrar determines which peers have to take the incoming requests based on the IMSI range configured in the proxy service. The sticky session key must be configured to an AVP that contains the IMSI. In the proxy service, mappings are created between the peers and the IMSI ranges based on which the received packets are directed through the mapped peer.

For example, consider the peers, peer1, peer2, and peer3 with their IMSI range 10000000000000-20000000000000, 20000000000001-30000000000000, and 30000000000001-40000000000000 respectively. When a request with 25000000000000 as IMSI range is received, the request is automatically forwarded to peer2.

Diameter Signaling Traffic Control

Cisco Access Registrar 5.1 supports diameter signaling traffic control using the Cisco Diameter Routing Agent (DRA). Cisco DRA allows complex mesh interconnections among Diameter-based network elements to support introduction of next-generation user services, tiered charging, converged billing, policy control, and more.

Diameter SNMP and Statistics Support

Cisco Access Registrar 5.1 also supports Diameter SNMP MIB (CISCO-DIAMETER-BASE-PROTOCOL-MIB) to describe the Diameter Base Protocol statistics.

Cisco Access Registrar 5.1 supports statistic of Diameter messages to include the additional counters. This is supported through the CLI/GUI and SNMP. The diameter statistics includes peer statistics and global summary statistics details.

Support for SCTP including Multihoming

Cisco Access Registrar 5.1 release enhances the diameter support to the most reliable transport mechanism such as SCTP with multi-homing.

Stored Procedure with IN and OUT parameters

A stored procedure is a database procedure similar to other programming language procedures, which is contained within the database itself. A SQL Server stored procedure that contains one or more IN parameters are used to pass data into the stored procedure. Similarly, one or more OUT parameters in the stored procedure are used to return data back to the calling application. Cisco Access Registrar 5.1 supports Oracle stored procedures/functions with IN and OUT parameters.

Support for ZFS File System

Cisco Access Registrar 5.1 supports the ZFS file system for Solaris. The ZFS file systems are the central point of administration are light weighted, and can be created easily. It controls the properties, snapshots, and backups on a per-user or per-project basis.

Support for Listed Cisco ASR 5000 Series - Vendor Specific Attributes

Cisco ASR 5000 series is a carrier-class platform that helps to meet the operators need by deploying high-demand mobile broadband networks including 2G/3G/4G mobile network from cell site to data center through packet core.

ASR 5000 are transparently deployed in mobile networks, including CDMA, LTE, UMTS HSPA, Femtocell, Wi-Fi, and WiMAX.

Starent dictionary consists of all of the attributes in the starent-vs1 dictionary and incorporates additional VSAs by using a two-byte VSA Type field. This dictionary is the master-set of all of the attributes supported by the system.

For more information on the VSA, refer

http://www.cisco.com/en/US/docs/wireless/asr_5000/10_0/OL-23000-01_AAA_Reference.pdf.

Oracle Driver Replacement

Cisco Access Registrar 5.1 supports Oracle clients 10.2.x, 11.1.x, and 11.2.x versions for Solaris and Linux with OCI services. In addition to UnixODBC Driver Manager, Cisco Access Registrar 5.1 connects to the Oracle server using the OCILIB call interface.

Wx Interface Support for SubscriberDB lookup

Cisco Access Registrar 5.1 supports Diameter Wx interface to fetch the authentication vectors from HSS required for EAP-SIM/EAP-AKA authentication.

The EAP-SIM and EAP-AKA authentication service is extended to generate a Diameter message Multimedia-Authentication-Request (MAR), with the subscriber identity (IMSI), to the HSS when it requires the authentication vectors. The HSS sends a Diameter Multimedia-Authentication-Answer (MAA) back containing the number of triplets/quintuplets.

Support for IPv6 RADIUS MIB

The introduction of IPv6, has brought in the need for support for RADIUS MIBs with IPv6. This obsoletes the RFCs - 2618, 2619, 2620, 2621 that detail RADIUS MIBs with IPv4 support. The Radius MIBs with IPv6 support are available in RFCs- 4668, 4669, 4670, 4671. Cisco Access Registrar 5.1 will support IPv6 RADIUS MIBs as per RFC 4668 - 4671.

IPv6 Diameter Support

Cisco Access Registrar 5.1 provides the IPv6 interface support for the Diameter packets. Cisco Access Registrar 5.1 listens, receives, and sends the Diameter packet in IPv6 interfaces. Cisco Access Registrar support the IPv6 address format in the HostName / Identity properties in clients and remote servers.

Cisco Access Registrar Jumpstart

Cisco Access Registrar is available as a virtualized hardware appliance, providing an easy to install, easy to use, and easy to buy solution for AAA services.

Enhancements in Cisco Access Registrar 5.1.0.6

Table 1 gives the details on the enhancements made in Cisco Access Registrar 5.1.0.6.

Table 1 *Enhancements in Cisco Access Registrar 5.1.0.6*

Bug	Description
CSCtn29426	Need to have a configurable option to change the NP in CDPA and CGPA. A configure option is provided for CDPA and CGPA number plan in SIGTRAN remote server.

Enhancements in Cisco Access Registrar 5.1.0.4

Table 2 gives the details on the enhancements made in Cisco Access Registrar 5.1.0.4.

Table 2 *Enhancements in Cisco Access Registrar 5.1.0.4*

Bug	Description
CSCty82224	Need to support diameter request routing based on the peers property. When IsActive is set as False and MultiplePeersPolicy is Failover for Diameter Services, failover is considered for the diameter sessions. If IsActive is set as False and MultiplePeersPolicy is Round-robin for Services, the new diameter sessions will not be sent to the peer; Earlier, the peer needs to be shutdown to avoid new sessions being sent to the peer.
CSCtz17252	Need auto commit feature for OCI accounting. When OCIAutoCommit is set as False for an OCI accounting server and the DataSourceConnections and OCITransactionCount are set as numeric values, the transaction details are committed in the database based on the OCITransactionCount set per DataSourceConnection. The remaining transaction details will be automatically committed to the database when Cisco Access Registrar is shutdown. For example, if the DataSourceConnections is 4 and the OCITransactionCount is 3, when the transactions between a connection and the server reaches the OCITransactionCount, the transaction details are committed to the database. The remaining transaction details are committed only after reaching the OCITransactionCount or when Cisco Access Registrar is shutdown.

Table 2 *Enhancements in Cisco Access Registrar 5.1.0.4 (continued)*

Bug	Description
CSCtx72644	Any minor version release of Cisco Access Registrar must honor and access the license of the corresponding major version.
CSCtz19281	<p>Need transaction count feature for OCI-accounting.</p> <p>When OCIAutoCommit is set as False for an OCI accounting server and the DataSourceConnections and OCITransactionCount are set as numeric values, the transaction details are committed in the database based on the OCITransactionCount set per DataSourceConnection. The remaining transaction details will be automatically committed to the database when Cisco Access Registrar is shutdown.</p> <p>For example, if the DataSourceConnections is 4 and the OCITransactionCount is 3, when the transactions between a connection and the server reaches the OCITransactionCount, the transaction details are committed to the database. The remaining transaction details are committed only after reaching the OCITransactionCount or when Cisco Access Registrar is shutdown.</p>

Enhancements in Cisco Access Registrar 5.1.0.3

Table 3 gives the details on the enhancements made in Cisco Access Registrar 5.1.0.3.

Table 3 *Enhancements in Cisco Access Registrar 5.1.0.3*

Bug	Description
CSCty82243	<p>Need to display an appropriate error message when an invalid IMSI value is sent during EAP-SIM authentication.</p> <p>In Cisco Access Registrar 5.1.0.3, when an invalid IMSI value is sent during EAP-SIM authentication, an appropriate error message should be displayed. Also, when EAPBadMessagePolicy is set to RejectFailure, Cisco Access Registrar should not drop the packet that contains invalid data or malformed EAP request, instead should send an access-reject packet.</p>

Enhancements in Cisco Access Registrar 5.1.0.2

Table 4 gives the details on the enhancements made in Cisco Access Registrar 5.1.0.2.

Table 4 *Enhancements in Cisco Access Registrar 5.1.0.2*

Bug	Description
CSCtx19134	<p>Need to enhance the timeout mechanism in OCI Accounting server so that Cisco Access Registrar does not depend on the Oracle Client timeout mechanism during query execution.</p> <p>In Cisco Access Registrar 5.1.0.2, the timeout mechanism in OCI Accounting server is enhanced so that Cisco Access Registrar does not depend on the Oracle Client timeout mechanism during query execution. Whenever a connection fails to complete a query execution on an Oracle server within the timeout interval, Cisco Access Registrar notifies the administrator using timeout message logged in the radius log and by sending a trap to the NMS. The next successful packet that completes the execution within timeout will eventually initiate a "OtherAcctServerResponding" trap to the NMS.</p>

Enhancements in Cisco Access Registrar 5.1.0.1

Table 5 gives the details on the enhancements made in Cisco Access Registrar 5.1.0.1.

Table 5 *Enhancements in Cisco Access Registrar 5.1.0.1*

Bug	Description
CSCtu23931	<p>Cisco Access Registrar 5.1.0.1 supports demultiplexing feature.</p> <p>Using this feature, Cisco Access Registrar 5.1.0.1 generates and sends multiple Credit Control Update (CCR-U) requests corresponding to an incoming diameter Credit Control Termination (CCR-T) request, while proxying Gy messages between the Gateway GPRS Support Node (GGSN) and Online charging system (OCS). The CCR-U requests are generated based on the number of RGs present in CCR-T request.</p>

Enhancements in Cisco Access Registrar 5.1

Table 6 gives the details on the enhancements made in Cisco Access Registrar 5.1.

Table 6 *Enhancements in Cisco Access Registrar 5.1*

Bug	Description
CSCtr93482	Support for Femto attributes in Cisco Access Registrar 5.1 release. Femto attributes are the additional Cisco VSA attributes. The HNB Parameters, Macro-Coverage-Information, Geographical Location, HNB Internet Information, Reject Cause, and White-List are the Femto attributes supported in Cisco Access Registrar 5.1 release.
CSCtq64354	AR-Director and AR-NG-Director licenses need to be supported in GUI. From Cisco Access Registrar 5.1, GUI support has been added for AR-Director and AR-NG-Director licenses. Hence, all the configuration and monitoring can be done through GUI also.

System Requirements

This section describes the system requirements to install and use the Cisco Access Registrar software.

Full Installation

For system requirement details, see Cisco Access Registrar 5.1 Datasheet:

http://www.cisco.com/en/US/products/sw/netmgts/ps411/products_data_sheets_list.html

Co-Existence With Other Network Management Applications

To achieve optimal performance, Cisco Access Registrar should be the only application running on a single machine.



Note

Cisco Network Registrar and Cisco Access Registrar cannot coexist on the same machine.

You can choose to run collaborative servers such as an Oracle or SQL database system, an LDAP server, or another Solaris application. There are no known conflicts with any other Solaris applications.

You can configure Cisco Access Registrar to avoid UDP port conflicts with other network management applications. The most common conflicts occur when other applications also use ports 2785 and 2786. Another possible conflict could be SNMP. If you configure and use SNMP on your Cisco Access Registrar server, no other application can be configured to use SNMP on the Cisco Access Registrar machine.

Cisco Access Registrar 5.1 Licensing

In Cisco Access Registrar 5.1, licensing is based on transactions per second (TPS). TPS is calculated based on the number of packets flowing into Cisco Access Registrar.

License Slabs

Greenfield customers can purchase Cisco Access Registrar 5.1 version by purchasing the part numbers listed in [Table 7](#) or [Table 8](#).

Table 7 Cisco AR 5.1 Ordering Information

Part Number	Description
AR-5.1-BASE-K9	Access Registrar Base license for Solaris/Linux; support for RADIUS; required for each Access Registrar Base Server, supports 100 transactions per second
AR-5.1-BASE-NG-K9	Access Registrar Next Generation Base license for Solaris/Linux; required for each Access Registrar Next Generation Base Server, support for RADIUS, Diameter, and IPv6; supports 100 transactions per second
AR-5.1-DIR-BASE-K9	Access Registrar Director Base license; Diameter Routing Agent, load balancing, intelligent AAA proxy, and Accounting write support; Includes RADIUS support; required for each Access Registrar Director Base server; supports 2000 transactions per second
AR-5.1-DRN-BASE-K9	Access Registrar Director Next Generation Base license; Diameter Routing Agent, load balancing, AAA proxy, and Accounting write support; Includes RADIUS, Diameter, and IPv6 support; required for each Access Registrar Director Next Generation Base server; supports 2000 transactions per second
AR-5.1-SECOND-K9	Access Registrar Secondary license; required for each standby server or exclusive session management sever

In addition, Cisco Access Registrar is also available by e-delivery; with e-delivery, the licenses are obtained electronically. The licenses need to be ordered using the part numbers in [Table 8](#).

Table 8 Cisco AR 5.1 E-Delivery Ordering Information

Part Number	Description
L-AR-5.1-100TPS=	E-Delivery Access Registrar Additional License per server; supports 100 transactions per second
L-AR-5.1-200TPS=	E-Delivery Access Registrar Additional License per server; supports 200 transactions per second
L-AR-5.1-500TPS=	E-Delivery Access Registrar Additional License per server; supports 500 transactions per second
L-AR-5.1-1000TPS=	E-Delivery Access Registrar Additional License per server; supports 1000 transactions per second

Table 8 Cisco AR 5.1 E-Delivery Ordering Information (continued)

Part Number	Description
L-AR-5.1-2000TPS=	E-Delivery Access Registrar Additional License per server; supports 2000 transactions per second
L-AR-5.1-3000TPS=	E-Delivery Access Registrar Additional License per server; supports 3000 transactions per second
L-AR-5.1-5000TPS=	E-Delivery Access Registrar Additional License per server; supports 5000 transactions per second
L-AR-5.1-DIR2KTPS=	E-Delivery Access Registrar Director Additional license per server; supports 2000 transactions per second

Upgrade Path

Existing Cisco Access Registrar customers with versions 3.x or 4.x, with or without SAS contracts, can upgrade to Cisco Access Registrar 5.1 by purchasing the appropriate upgrade part numbers listed in [Table 9](#). Existing Cisco Access Registrar customers with versions 5.0.x with SAS contract can avail free upgrade to Cisco Access Registrar 5.1.



Note

Existing Cisco Access Registrar customers with version 5.0 with SAS contract are eligible for a free upgrade to Cisco Access Registrar 5.1 for their respective licenses. After upgrading to Cisco Access Registrar 5.1, if the customer expands the network or wants to purchase any new base licenses or additional TPS licenses, they need to purchase the regular part numbers listed in [Table 7](#) or [Table 8](#).

Table 9 Cisco AR 5.1 Upgrade Ordering Information

Part Number	Description
AR-5.1-UPG-K9	Access Registrar Upgrade Base license for Solaris/Linux; support for RADIUS; required for each Access Registrar Base Server, supports 100 transactions per second
AR-5.1-UPG-NG-K9	Access Registrar Upgrade Next Generation Base license for Solaris/Linux; required for each Access Registrar Next Generation Base Server, support for RADIUS, Diameter, and IPv6; supports 100 transactions per second
AR-5.1-UPG-DIR-K9	Access Registrar Upgrade Director Base license; Diameter Routing Agent, load balancing, intelligent AAA proxy, and Accounting write support; Includes RADIUS support; required for each Access Registrar Director Base server; supports 2000 transactions per second

Table 9 Cisco AR 5.1 Upgrade Ordering Information (continued)

Part Number	Description
AR-5.1-UPG-DRN-K9	Access Registrar Upgrade Director Next Generation Base license; Diameter Routing Agent, load balancing, intelligent AAA proxy, and Accounting write support; Includes RADIUS, Diameter, and IPv6 support; required for each Access Registrar Director Next Generation Base server; supports 2000 transactions per second
AR-5.1-UPSECOND-K9	Access Registrar Upgrade Secondary license; required for each standby server or exclusive session management sever

In addition, Cisco Access Registrar 5.1 upgrade additional TPS part numbers are available by e-delivery. The licenses need to be ordered using the upgrade part numbers listed in [Table 10](#).

Table 10 Cisco AR 5.1 E-delivery Upgrade Ordering Information

Part Number	Description
L-AR-5.1-UP100TPS=	E-Delivery Access Registrar Upgrade Additional License per server; supports 100 transactions per second.
L-AR-5.1-UP200TPS=	E-Delivery Access Registrar Upgrade Additional License per server; supports 200 transactions per second.
L-AR-5.1-UP500TPS=	E-Delivery Access Registrar Upgrade Additional License per server; supports 500 transactions per second.
L-AR-5.1-UP1KTPS=	E-Delivery Access Registrar Upgrade Additional License per server; supports 1000 transactions per second
L-AR-5.1-UP2KTPS=	E-Delivery Access Registrar Upgrade Additional License per server; supports 2000 transactions per second
L-AR-5.1-UP3KTPS=	E-Delivery Access Registrar Upgrade Additional License per server; supports 3000 transactions per second
L-AR-5.1-UP5KTPS=	E-Delivery Access Registrar Upgrade Additional License per server; supports 5000 transactions per second
L-AR-5.1-UPD2KTPS=	E-Delivery Access Registrar Upgrade Director Additional License per server; supports 2000 transactions per second

License Slabs for Cisco Access Registrar 5.1 Jumpstart

Cisco Access Registrar is now being made available as an appliance version - Cisco Access Registrar Jumpstart 5.1. Customers can purchase Cisco Access Registrar Jumpstart 5.1 by purchasing the part numbers listed in [Table 11](#). For more information on Cisco Access Registrar Jumpstart 5.1, please visit www.cisco.com/go/jumpstart-ar.

Table 11 Cisco Access Registrar Jumpstart 5.1 Ordering Information

Part Number	Description
CAR-APPL-K9	Access Registrar Director Next Generation Base license for Solaris/Linux; Includes RADIUS, Diameter and IPv6 support; required for each Access Registrar Director Next Generation Base server; supports 100 transactions per second
AR-5.1-100TPS	Access Registrar Additional License per server; supports 100 transactions per second
AR-5.1-200TPS	Access Registrar Additional License per server; supports 200 transactions per second
AR-5.1-500TPS	Access Registrar Additional License per server; supports 500 transactions per second
AR-5.1-1000TPS	Access Registrar Additional License per server; supports 1000 transactions per second
AR-5.1-2000TPS	Access Registrar Additional License per server; supports 2000 transactions per second
AR-5.1-3000TPS	Access Registrar Additional License per server; supports 3000 transactions per second
AR-5.1-5000TPS	Access Registrar Additional License per server; supports 5000 transactions per second

Getting Cisco Access Registrar 5.1 License

When you order the Cisco AR 5.1 product, a text license file will be sent to you by e-mail. If you are evaluating the software, Cisco will provide you with an evaluation license.

If you decide to upgrade your Cisco Access Registrar software, a new text license file will be sent to you by e-mail.



Note

While upgrading to Cisco Access Registrar 5.1, the licenses of previous versions cannot be used. Backward compatibility support in terms of license will not be available in this version.

If you receive a Software License Claim Certificate, you can get your Cisco Access Registrar license file at one of the two following URLs:

- www.cisco.com/go/license
Use this site if you are a registered user of Cisco.com
- www.cisco.com/go/license/public
Use this site if you are not a registered user of Cisco.com.

Within one hour of registration at either of the above websites, you will receive your license key file and installation instructions by e-mail.

Installing Cisco Access Registrar 5.1 Licenses

You must have a license in a directory on the Cisco Access Registrar machine before you attempt to install Cisco Access Registrar software. If you have not installed the Cisco Access Registrar license file before beginning the software installation, the installation process will fail.

You can store the Cisco Access Registrar license file in any directory on the Cisco Access Registrar machine. During the installation process, you will be asked for the location of the license file, and the installation process will copy the license file to the `/opt/CSCOar/license` directory, or `$INSTALL/license` if you are not using the default installation location.

The license file might have the name `ciscoar.lic`, but it can be any filename with the suffix `.lic`. To install the Cisco Access Registrar license file, you can copy and paste the text into a file, or you can simply save the file you receive in e-mail to an accessible directory.

Adding Additional Cisco Access Registrar 5.1 Licenses

If you add additional licenses, you can open the file in `/opt/CSCOar/license` and add additional lines to the license file, or you can create an additional license file to hold the new lines. If you add a new file, remember to give it a `.lic` suffix. You must restart the Cisco Access Registrar server for the new license to take effect. To restart the Cisco Access Registrar server, enter the following on the server command line:

```
/opt/CSCOar/bin/arserver restart
```

Sample License File

The following is an example of a Cisco AR 5.1 license file.

```
INCREMENT AR-BASE-100TPS cisco 5.1 09-Jun-2011 uncounted HOSTID=ANY \
NOTICE="<LicFileID></LicFileID><LicLineID>0</LicLineID> \
<PAK>dummyPak</PAK>" SIGN=ABCDEF123456
INCREMENT AR-ADD-TPS cisco 5.1 09-Jun-2011 uncounted \
VENDOR_STRING=<count>1000</count> HOSTID=ANY \
NOTICE="<LicFileID></LicFileID><LicLineID>5</LicLineID> \
<PAK>dummyPak</PAK>" SIGN=ABCDEF123456
```

Displaying License Information

Cisco Access Registrar provides two ways of getting license information using `aregcmd`:

- `aregcmd` command-line option
- Launching `aregcmd`

`aregcmd` Command-Line Option

Cisco Access Registrar provides a new `-l` command-line option to `aregcmd`. The syntax is:

```
aregcmd -l directory_name
```

where `directory_name` is the directory where the Cisco Access Registrar license file is stored.

The following is an example of the **aregcmd -l** command:

```
aregcmd -l /opt/CSCOar/license
Licensed Application: Cisco Access Registrar (Standard Version)
```

Following are the licensed components:

NAME	VERSION	EXPIRY_INFO	COUNT
====	=====	=====	=====
AR-Base-100TPS	5.1	09-Jun-2011	100
AR-ADD-TPS	5.1	09-Jun-2011	100

Launching aregcmd

The Cisco Access Registrar server displays license information when you launch **aregcmd**, as shown in the following:

aregcmd

```
Cisco Access Registrar 5.1 Configuration Utility
Copyright (C) 1995-2011 by Cisco Systems, Inc. All rights reserved.
Logging in to localhost
```

```
[ //localhost ]
LicenseInfo = AR-Base-100TPS 5.1 (expires on 09-Jun-2011)
              AR-ADD-TPS 5.1 (expires on 09-Jun-2011)

Radius/
Administrators/
```

```
Server 'Radius' is Running, its health is 10 out of 10
```

Caveats

This section provides information about known anomalies in Cisco AR 5.1 and information about anomalies from previous versions of Cisco Access Registrar that have been fixed.

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Anomalies Fixed in Cisco Access Registrar 5.1.0.10

Table 12 lists the anomalies fixed in Cisco Access Registrar 5.1.0.10.

Table 12 *Anomalies Fixed in Cisco Access Registrar 5.1.0.10*

Bug	Description
CSCur38003	Support for Tomcat7.0.54, JRE 6 and 7 in Access Registrar 5.1. Support for JRE 5 is removed. Symptom: None. Condition: None. Workaround: None.
CSCur50077	Cisco Access Registrar crashed after LogFileBackingStore pruning operation. Symptom: Cisco Access Registrar crashes and core file is seen in the log. Condition: After multiple pruning operations. Workaround: Increase the pruning interval to delay server restarts.

Anomalies Fixed in Cisco Access Registrar 5.1.0.9

Table 13 lists the anomalies fixed in Cisco Access Registrar 5.1.0.9.

Table 13 *Anomalies Fixed in Cisco Access Registrar 5.1.0.9*

Bug	Description
CSCtz22970	OCI/ODBC service is not identifying the attributes which are added by incoming script. Symptom: OCI/ODBC service is not identifying the attributes which are added by incoming script. Condition: Attributes added using the incoming script. Workaround: None.

Anomalies Fixed in Cisco Access Registrar 5.1.0.8

Table 14 lists the anomalies fixed in Cisco Access Registrar 5.1.0.8.

Table 14 *Anomalies Fixed in Cisco Access Registrar 5.1.0.8*

Bug	Description
CSCup94803	<p>Oracle connection not released upon ungraceful shutdown.</p> <p>Symptom: Oracle connection not released upon ungraceful shutdown of oracle server.</p> <p>Condition: Ungraceful shutdown of oracle server.</p> <p>Workaround: None</p>

Anomalies Fixed in Cisco Access Registrar 5.1.0.7

Table 15 lists the anomalies fixed in Cisco Access Registrar 5.1.0.7.

Table 15 *Anomalies Fixed in Cisco Access Registrar 5.1.0.7*

Bug	Description
CSCte61073	<p>With oracle, User-Password is shown in trace message.</p> <p>Symptom: With oracle authentication and authorization, User-Password attribute is displayed as clear text in the trace message.</p> <p>Condition: This occurs during oracle authentication and authorization.</p> <p>Workaround: The User-Password attribute is encrypted and shown as “Encrypted” in the trace message.</p>
CSCtt21081	<p>Validate ODBCDataSource for odbc and oci appropriately while creating stored procedure.</p> <p>Symptom: When remote server protocol type is odbc and odbc datasource type is myodbc or oracle_es, no validation happens when you try to create a stored procedure.</p> <p>Condition: This occurs when you configure the ODBCDataSource type as oracle_es and the remote server protocol as oci, and create a stored procedure.</p> <p>Workaround: None</p>

Table 15 *Anomalies Fixed in Cisco Access Registrar 5.1.0.7 (continued)*

Bug	Description
CSCud21257	<p>Validation required while modifying the ODBCDataSources types.</p> <p>Symptom: Error shown when there is a mismatch in the ODCBCDataSources types.</p> <p>Condition: This occurs while modifying the ODBCDataSources type as oracle_es from oracle_oci.</p> <p>Workaround: None</p>
CSCue45944	<p>Scalable ExtendedBackingStore.</p> <p>Symptom: While sharing the traffic (load sharing), if you shut down one remote server, packets targeting the other remote server also will not be sent.</p> <p>Condition: This occurs when Cisco Access Registrar has more than one remote OCI accounting server configured.</p> <p>Workaround: EBS is re-factored, so that the blocks that make EBS non-scalable are removed.</p>
CSCui96351	<p>Cisco Access Registrar crashes while disabling buffering in odbc-accounting.</p> <p>Symptom: Cisco Access Registrar crashes as UserPasswordAttribute in Cisco Access Registrar configuration returns NULL for odbc-accounting.</p> <p>Condition: This occurs when BufferAccountingPackets is set as False.</p> <p>Workaround: None</p>
CSCuj49498	<p>Cisco Access Registrar crashes while disabling buffering in oci-accounting.</p> <p>Symptom: Cisco Access Registrar crashes as UserPasswordAttribute in Cisco Access Registrar configuration returns NULL for oci-accounting.</p> <p>Condition: This occurs when BufferAccountingPackets is set as False.</p> <p>Workaround: None</p>

Table 15 *Anomalies Fixed in Cisco Access Registrar 5.1.0.7 (continued)*

Bug	Description
CSCuj54040	<p>OCI should support multiple occurrences of same attributes in markerlist.</p> <p>Symptom: Unable to connect with OCI remote server. Error shown in the log as failed to bind with Username/1 in the Marker List.</p> <p>Condition: This occurs during multiple occurrence of the same attribute in the marker list.</p> <p>Workaround: Create new attributes with different names and load them to environment dictionary. Then, you can use the newly created attributes.</p>
CSCum50113	<p>The VendorLengthSize should be made user configurable.</p> <p>Symptom: Error shown when user tries to modify the type and length of vendor-specific attributes and upgrade the dictionary.</p> <p>Condition: This occurs when the user sets the two attributes SN-Service-Type and SN-Software-Version in radclient packet and tries to push.</p> <p>Workaround: Code changed to allow user to configure type and length of vendor-specific attributes.</p>
CSCum63044	<p>Need to include Reply-Message attribute in eap-mschapv2 reject.</p> <p>Symptom: Cisco Access Registrar does not include Reply-Message attribute in eap-mschapv2 reject; whereas, Reply-Message is included if the authentication service is set to local-users with plain PPP authentication.</p> <p>Condition: This occurs when AllowEAPRejectAttrs is set to TRUE/FALSE in Radius/Advanced/RFCCompliance.</p> <p>Workaround: None.</p>

Anomalies Fixed in Cisco Access Registrar 5.1.0.6

Table 16 lists the anomalies fixed in Cisco Access Registrar 5.1.0.6.

Table 16 *Anomalies Fixed in Cisco Access Registrar 5.1.0.6*

Bug	Description
CSCtz34783	<p>Need a script API to set Radius Packet code.</p> <p>Symptom: Converting the access and accounting request to POD and COA request.</p> <p>Condition: Need a script for the conversion.</p> <p>Workaround: Restart the Cisco Access Registrar server.</p>

Anomalies Fixed in Cisco Access Registrar 5.1.0.4

Table 17 lists the anomalies fixed in Cisco Access Registrar 5.1.0.4.

Table 17 *Anomalies Fixed in Cisco Access Registrar 5.1.0.4*

Bug	Description
CSCty54254	<p>Realm routing attribute is missing in GUI.</p> <p>Symptoms: In GUI, the realm routing attribute is missing in Diameter TransportManagement form.</p> <p>Condition: This occurs when the realm routing attribute is missing in Diameter TransportManagement form.</p> <p>Workaround: Use CLI.</p>
CSCtz04481	<p>Without restarting the Cisco Access Registrar server, the DST change in the timestamp of Acctinfo log is not updated.</p> <p>Symptoms: The DST change in the timestamp is not updated in the Acctinfo log.</p> <p>Conditions: This occurs when the DST change is not updated in the Acctinfo log.</p> <p>Workaround: Restart the Cisco Access Registrar server.</p>

Table 17 *Anomalies Fixed in Cisco Access Registrar 5.1.0.4 (continued)*

Bug	Description
CSCty87261	<p>After DST change, the accounting files are not properly rolled out.</p> <p>Symptoms: With the DST change, the Cisco Access Registrar rolls out smaller accounting files instead of a single larger file.</p> <p>Conditions: This occurs when there is a change in DST.</p> <p>Workaround: None.</p>
CSCty80331	<p>carOtherAccServerResponding Trap is not seen when AR recovers from a timeout of the OCI Accounting service.</p> <p>Symptoms: carOtherAccServerResponding Trap is not seen when AR recovers from a timeout of the OCI Accounting service.</p> <p>Conditions: This occurs when:</p> <ol style="list-style-type: none"> 1. Extended backing store is enabled in the OCI Accounting server. 2. Oracle server is in a stressed state and slow to respond. 3. Response from the Oracle server reaches Cisco Access Registrar after timeout period. <p>Workaround: Whenever any maintenance is happening at Oracle server (which may lead to stressed state of Oracle server), the Oracle server have to be taken offline from the Cisco Access Registrar (This can be done by adding a bad route at Cisco Access Registrar to the oracle server.)</p>
CSCtz26394	<p>During rollover, while restarting the Cisco Access Registrar server, the Acctinfo log is deleted.</p> <p>Symptoms: Acctinfo log is deleted while restarting the Cisco Access Registrar server.</p> <p>Conditions: This occurs during Acctinfo log rollover.</p> <p>Workaround: Restart the Cisco Access Registrar server.</p>
CSCtz37838	<p>Mozilla Firefox and Chrome browsers does not support ODBCDataSources configuration in GUI.</p> <p>Symptoms: Mozilla Firefox and Chrome browsers does not support ODBCDataSources configuration in GUI.</p> <p>Conditions: This occurs when use Mozilla Firefox and Chrome browsers.</p> <p>Workaround: Use CLI.</p>

Table 17 *Anomalies Fixed in Cisco Access Registrar 5.1.0.4 (continued)*

Bug	Description
CSCtx76867	<p>Check for AT_NONCE_MT attribute in EAP-AKA is not valid as per RFC.</p> <p>Symptoms: Check for AT_NONCE_MT attribute in EAP-AKA is not valid as per RFC.</p> <p>Conditions:</p> <p>This occurs when AlwaysRequestIdentity is set to TRUE in EAP-AKA service.</p> <p>Workaround:</p> <p>None.</p>
CSCty88035	<p>Oracle server does not disconnect when native Oracle error comes up.</p> <p>Symptoms: Oracle server does not disconnect when native Oracle error comes up.</p> <p>Conditions:</p> <p>This occurs when Oracle error is encountered with sqlnet.ora file configured with receive and sent time out.</p> <p>Workaround:</p> <p>None.</p>
CSCtz20638	<p>All the entries have been deleted from AcctInfo log after reloading Cisco Access Registrar.</p> <p>Symptoms: All the entries have been deleted from AcctInfo log after reloading Cisco Access Registrar.</p> <p>Conditions:</p> <p>This occurs when Cisco Access Registrar is reloaded with information in AcctInfo log.</p> <p>Workaround:</p> <p>None.</p>

Anomalies Fixed in Cisco Access Registrar 5.1.0.3

[Table 18](#) lists the anomalies fixed in Cisco Access Registrar 5.1.0.3.

Table 18 *Anomalies Fixed in Cisco Access Registrar 5.1.0.3*

Bug	Description
CSCty50804	<p>In Cisco Access Registrar, while configuring eap-sim with SubscriberDBLookup as SIGTRAN using GUI, an internal error is displayed.</p> <p>Symptoms: In Cisco Access Registrar, while configuring eap-sim with SubscriberDBLookup as SIGTRAN using GUI, an internal error is displayed.</p> <p>Conditions:</p> <p>This occurs when you configure eap-sim with SubscriberDBLookup as SIGTRAN using GUI.</p> <p>Workaround:</p> <p>Use CLI.</p>

Anomalies Fixed in Cisco Access Registrar 5.1.0.2

Table 19 lists the anomalies fixed in Cisco Access Registrar 5.1.0.2.

Table 19 *Anomalies Fixed in Cisco Access Registrar 5.1.0.2*

Bug	Description
CSCtu11623	<p>Resolving Cisco Access Registrar hostname causes issues in forwarding the radius packets.</p> <p>Symptoms: When configuring a service in Cisco Access Registrar that involves a remote-server the following error is displayed and the packet is dropped. An error message stating that “Unable to send proxy request to Remote server” is displayed due to memory issues.</p> <p>Conditions:</p> <p>This occurs when:</p> <ol style="list-style-type: none"> 1. DNS server is not configured. 2. DNS record does not exist. <p>Workaround:</p> <p>Modify the 'hosts' file to resolve the hostname or fix the DNS issues.</p>
CSCtv17686	<p>During upgrade of Cisco Access Registrar from version 5.1 to 5.1.0.1, scriptlet failed error is displayed.</p> <p>Symptoms: During upgrade of Cisco Access Registrar from version 5.1 to 5.1.0.1, scriptlet failed error is displayed.</p> <p>Conditions:</p> <p>This occurs when you upgrade Cisco Access Registrar from version 5.1 to 5.1.0.1 with Diameter configuration.</p> <p>Workaround: None.</p>
CSCtw77792	<p>In GUI, the disk usage chart does not display correct values.</p> <p>Symptoms: In GUI, the disk usage chart does not display correct values.</p> <p>Conditions: This occurs when the OS type check and attribute comparison in Local Linux machines are missing.</p> <p>Workaround:</p> <p>Use Linux machines.</p>
CSCtw52667	<p>In GUI, few attributes are missing in the Diameter peers list validation.</p> <p>Symptoms: In GUI, few attributes are missing in the Diameter peers list validation.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Configure Diameter NASREQ application. 2. Set weight as 'sads' and save. <p>Workaround:</p> <p>Use CLI.</p>

Table 19 *Anomalies Fixed in Cisco Access Registrar 5.1.0.2 (continued)*

Bug	Description
CSCtw69564	<p>OCI fails to bind with Marker variable having a leading number like 3GPP.</p> <p>Symptoms: OCI fails to bind with Marker variable having a leading number like 3GPP.</p> <p>Conditions:</p> <p>This occurs when you configure the OCI Remote server as Marker variable having a leading number.</p> <p>Workaround:</p> <p>Use a Marker variable without having a leading number.</p>
CSCtw86861	<p>With AdditionalNativeOracleErrors, OCI is not disconnected from the remote server.</p> <p>Symptoms: With AdditionalNativeOracleErrors, OCI is not disconnected from the remote server.</p> <p>Conditions:</p> <p>This occurs when the OCI remoteserver receives ORACLE Native errors equivalent to the configured AdditionalNativeOracleErrors.</p> <p>Workaround: None.</p>
CSCtx15092	<p>Need to improve backlog clearing mechanism in ExtendedBackingStore.</p> <p>Symptoms: When buffering is enabled in the OCI Accounting server, draining of packets from Cisco Access Registrar will be too slow.</p> <p>Conditions:</p> <p>This occurs when there is a disturbance in the Oracle server connection.</p> <p>Workaround: None.</p>
CSCtx18730	<p>With extended buffering, in remote OCI Accounting server, the remote server statistics is not updated.</p> <p>Symptoms: With extended buffering, in remote OCI Accounting server, the remote server statistics will not be updated.</p> <p>Conditions:</p> <p>This occurs when extended buffering is extended in the OCI Accounting server.</p> <p>Workaround: None.</p>

Anomalies Fixed in Cisco Access Registrar 5.1

Table 20 lists the anomalies fixed in Cisco Access Registrar 5.1.

Table 20 *Anomalies Fixed in Cisco Access Registrar 5.1*

Bug	Description
CSCt178290	DRA crashes when the optional attributes are changed as required attributes. Symptoms: DRA crashes when the optional attributes are changed as required attributes. Conditions: This occurs when you change the optional attributes as required attributes. Workaround: None
CSCt142496	Show license command must show the actual number of licensed TPS. Symptoms: Show license command must show the actual number of licensed TPS. Conditions: This occurs when you execute the show-license command in aregcmd. Workaround: None
CSCtq94104	In GUI, IsWindows7Client enabled checkbox attribute is missing. Symptoms: In GUI, IsWindows7Client enabled checkbox attribute is missing. Conditions: This occurs when you: <ol style="list-style-type: none"> 1. Launch GUI. 2. Add eap-mschapv2. Workaround: None.
CSCt178268	The optional attributes are not exposed to the application level from the stack. Symptoms: The optional attributes are not exposed to the application level from the stack. Conditions: None Workaround: Change the optional attributes to required attributes.
CSCtr19245	Replication fails when using insert statements to add remote servers to the list under a service. Symptoms: Replication fails when setting remote servers to the list under a service. Conditions: This occurs while using insert command to add remote servers under services. Workaround: Use add or set command instead of insert command.
CSCto77263	Cannot configure the same IPv6 address for the Diameter clients. Symptoms: Cannot configure the same IPv6 address for the Diameter clients. Conditions: This occurs when you configure the same IPv6 address for the Diameter clients. Workaround: None.

Table 20 *Anomalies Fixed in Cisco Access Registrar 5.1 (continued)*

Bug	Description
CSCto80146	<p>In GUI, for setting trace level, a reload pop-up messages.</p> <p>Symptoms: In GUI, for setting trace level, a reload pop-up messages.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Log into GUI. 2. Set trace to 5 in the Advanced logs. 3. Save. 4. Reload the pop-up messages. <p>Workaround: None.</p>
CSCtk15147	<p>Unable to restart the Cisco Access Registrar server as the he Web GUI port 8080 is occupied by another application.</p> <p>Symptoms: Unable to restart the Cisco Access Registrar server as the he Web GUI port 8080 is occupied by another application.</p> <p>Conditions:</p> <p>This occurs in random when the Cisco Access Registrar server restarts.</p> <p>Workaround: Restart the Cisco Access Registrar server.</p>
CSCtl46260	<p>Getting a 310 command failed error during reload operation with ldap-accounting.</p> <p>Symptoms: Getting a 310 command failed error during reload operation with ldap-accounting.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Configure the ldap-accounting server. 2. Execute timetest 2 10000 1 in radclient. 3. Save and reload the Cisco Access Registrar server. <p>Workaround: None.</p>
CSCtq75142	<p>During query session, AR hangs and a warning is displayed stating that all the worker threads are busy.</p> <p>Symptoms: During query session, AR hangs and a warning is displayed stating that all the worker threads are busy.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Configure the remote session manager. 2. Set /r/advanced/MaximumODBCResultSize to 8192. 3. Execute query-session command during timetest. <p>Workaround: Do not execute query-session command during timestamp.</p>

Table 20 *Anomalies Fixed in Cisco Access Registrar 5.1 (continued)*

Bug	Description
CSCtr67179	<p>Cisco Access Registrar cores when generic IPv6-IPv4 is added to a client.</p> <p>Symptoms: Cisco Access Registrar cores when generic IPv6-IPv4 is added to a client.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Add a client. 2. Set IP address to 2001:0db8:0000:0000:0000:FFFF:192.168.0.5 3. Save. 4. Reload. <p>Workaround: None.</p>
CSCtn16095	<p>Cisco Access Registrar cores during reload while sending diameter packets.</p> <p>Symptoms: Cisco Access Registrar cores during reload while sending diameter packets.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Configure Diameter local service. 2. Send a request from a Diameter client. 3. Reload Cisco Access Registrar server. <p>Workaround: Change the Cisco Access Registrar server configuration and restart the server instead of reload.</p>
CSCtr45271	<p>Getting multiple AuthClientAddress with SNMP walk when IPv6 is enabled.</p> <p>Symptoms: Query for client stats using SNMP returns duplicate stats entries for IPv6 clients.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Configure IPv4 and IPv6. 2. Enable SNMP. 3. Execute SNMP walk script. <p>Workaround: None.</p>

Table 20 **Anomalies Fixed in Cisco Access Registrar 5.1 (continued)**

Bug	Description
CSCtr45535	<p>When you restart the Cisco Access Registrar while the Oracle server is down, Cisco Access Registrar should send a single trap instead of multiple traps.</p> <p>Symptoms: When you restart the Cisco Access Registrar while the Oracle server is down, Cisco Access Registrar should send a single trap instead of multiple traps.</p> <p>Conditions:</p> <p>This occurs when:</p> <ol style="list-style-type: none"> 1. Configure SNMP. 2. Configure ODBC accounting. 3. Oracle server is down. 4. Restart the server again. 5. Multiple traps with the same carOtherAcc server are not responding to the traps. <p>Workaround: None.</p>
CSCtg34491	<p>Cisco Access Registrar server 4.2.2.1 crashes with Enterprise Oracle 10.2.0.1 client version.</p> <p>Symptoms: Radius process crashes and gets restarted by Cisco Access Registrar Server Agent.</p> <p>Conditions:</p> <p>This occurs when you use Enterprise Oracle 10.2.0.1 client version.</p> <p>Workaround: Use the library libclntsh.so.10.1 from 10.1.0.5 instant client version. The path for the library to replace is \$ORACLE_HOME/lib.</p>
CSCtl69535	<p>In GUI, exception occurs while editing map property in AD-remoteserver group.</p> <p>Symptoms: In GUI, exception occurs while editing map property in AD-remoteserver group.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Open GUI. 2. Add a AD remoteserver with group map. 3. Try to edit and save again. 4. Configure SNMP or do replication. <p>Workaround: Use CLI to configure.</p>
CSCtj63653	<p>Cisco Access Registrar probe script is not working in Linux.</p> <p>Symptoms: Cisco Access Registrar probe script is not working in Linux.</p> <p>Conditions: None.</p> <p>Workaround: None.</p>
CSCtl58639	<p>Need to allow only 32-bit Java during installation.</p> <p>Symptoms: GUI issues related to Java compatibility issues during run time.</p> <p>Conditions:</p> <p>This occurs when installed with 64-bit Java.</p> <p>Workaround: Install with 32-bit Java.</p>

Table 20 *Anomalies Fixed in Cisco Access Registrar 5.1 (continued)*

Bug	Description
CSCtl82489	<p>In stats, negative value is shown with more number of requests sent.</p> <p>Symptoms: In stats negative value is shown with more number of requests sent.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Add a Null server. 2. Start 3 to 4 radclients. 3. Send a heavy traffic for more than a day. <p>The following shows sample:</p> <pre>timetest 2 100000 1000 1 1 from 3 radclients</pre> <p>Workaround: None.</p>
CSCto82583	<p>AR server crashes during the query session.</p> <p>Symptoms: AR server crashes during the query session.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Configure the remote SM and local SM. 2. Remote SM has a connection error. 3. Create the sessions using local SM. 4. Give the query sessions command in CLI. <p>Workaround: Remove remote SM.</p>

Known Anomalies in Cisco Access Registrar 5.1.0.7

[Table 21](#) lists the known anomalies in Cisco Access Registrar 5.1.0.7.

Table 21 *Known Anomalies in Cisco Access Registrar 5.1.0.7*

Bug	Description
CSCuh57716	<p>Validation error should be thrown for replication in CLI.</p> <p>Symptom:</p> <p>No validation when trying to add rep members when the RepIsMaster attribute is set as False.</p> <p>Condition:</p> <p>This occurs while configuring replication in CLI.</p> <p>Workaround:</p> <p>None.</p>

Known Anomalies in Cisco Access Registrar 5.1.0.1

Table 22 lists the known anomalies in Cisco Access Registrar 5.1.0.1.

Table 22 *Known Anomalies in Cisco Access Registrar 5.1.0.1*

Bug	Description
CSCtv17686	<p>During upgrade of Cisco Access Registrar from version 5.1 to 5.1.0.1, scriptlet failed error is displayed.</p> <p>Symptoms: During upgrade of Cisco Access Registrar from version 5.1 to 5.1.0.1, scriptlet failed error is displayed.</p> <p>Conditions:</p> <p>This occurs when you upgrade Cisco Access Registrar from version 5.1 to 5.1.0.1 with Diameter configuration.</p> <p>Workaround: None.</p>

Known Anomalies in Cisco Access Registrar 5.1

Table 23 lists the known anomalies in Cisco Access Registrar 5.1.

Table 23 *Known Anomalies in Cisco Access Registrar 5.1*

Bug	Description
CSCts12551	<p>Unable to receive the IPv6-RadiusAccounting server not responding trap.</p> <p>Symptoms: Unable to receive the IPv6-RadiusAccounting server not responding trap. Instead, the authserver not responding trap is received.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Add a IPv6 accounting proxy server. 2. Send a request to the server. 3. Stop the proxy server. 4. Send a request again. 5. Receive a trap. <p>Workaround: None.</p>
CSCts12575	<p>IPv6 Auth/Acct Client information is not updated properly.</p> <p>Symptoms: IPv6 Auth/Acct Client information is not updated properly.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Add a IPv6 client. 2. Send a request via the client. 3. Execute the SNMP walk script. <p>Workaround: None.</p>

Table 23 *Known Anomalies in Cisco Access Registrar 5.1 (continued)*

Bug	Description
CSCtk69875	<p>Memory leak in the clients when Dynamic authorization is enabled and the netmask is 255.255.0.0.</p> <p>Symptoms: Memory leak in the clients when Dynamic authorization is enabled and the netmask is 255.255.0.0.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Configure a client with netmask 255.255.0.0. 2. Enable dynamic authorization in the same client. 3. Check the memory footprint. <p>Workaround: None.</p>
CSCtq29279	<p>Multiple Cisco Attribute-value pair (AVP) cache fails with EAP-FAST and displays wrong value in a single Cisco AV pair cached attribute.</p> <p>Symptoms: Multiple Cisco AVP cache fails with EAP-FAST and displays wrong value in a single Cisco AVP cached attribute.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Add multiple Cisco AV pair attribute in userlist/default/user. 2. Add EAP-Fast service. 3. Cache the multiple attributes. 4. Check for the presence of defined Cisco AVP. 5. Check whether the correct Cisco AVP are received. <p>Workaround: None.</p>
CSCtq83329	<p>In Diameter, unable to exchange the Capability Exchange Requests (CERs) with few specific IPs.</p> <p>Symptoms: While exchanging CERs with Diameter, parse error occurs.</p> <p>Conditions:</p> <p>This occurs when you configure the client IP address like 10.10.10.<single digit>.</p> <p>Workaround: Configure the client IP address as a domain name.</p>
CSCtj56786	<p>During release session, scalability crashes while testing with the external session manager.</p> <p>Symptoms: Cisco Access Registrar crashes during release session with remote session management.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Install Cisco Access Registrar server. 2. Configure the remote session manager. 3. Scale a session for more than a million. 4. Release all the sessions for the remote-session manager using CLI. <p>Workaround: Release in multiple smaller sets of sessions.</p>

Table 23 *Known Anomalies in Cisco Access Registrar 5.1 (continued)*

Bug	Description
CSCte77779	<p>In GUI, user session graph is not getting plotted with more sessions in database.</p> <p>Symptoms: In GUI, user session graph is not getting plotted with more sessions in database.</p> <p>Conditions:</p> <p>This occurs when you:</p> <ol style="list-style-type: none"> 1. Install Cisco Access Registrar server. 2. Send a valid request. 3. Create a million session. 4. Launch GUI. <p>Workaround: None.</p>
CSCtn19292	<p>Limitation in /Rad/Adv should be 3584M but exceeded to 3726M.</p> <p>Symptoms: Limitation in /Rad/Adv should be 3584M but exceeded to 3726M.</p> <p>Conditions:</p> <p>This occurs when you scale the sessions with a local SM.</p> <p>Workaround: None.</p>
CSCts15247	<p>Upgrading the Cisco Access Registrar to 5.1 version fails with diameter remote server configuration.</p> <p>Symptoms: When you upgrade the Cisco Access Registrar to 5.1 version.</p> <p>Conditions:</p> <p>This occurs when you configure the diameter remote server in any of the older version and then upgrade to 5.1 version.</p> <p>Workaround:</p> <p>Delete the diameter remote servers and upgrade to 5.1 version.</p>
CSCtt21081	<p>Validation is missing for ODBCDataSource for ODBC and OCI.</p> <p>Symptoms: Validation is missing for ODBCDataSource for ODBC and OCI.</p> <p>Conditions:</p> <p>This occurs when you change the ODBCDataSource type after configuring the OCI.</p> <p>Workaround: None.</p>

Related Documentation

The following is a list of the documentation for Cisco AR 5.1. You can access the URLs listed for each document at www.cisco.com on the World Wide Web. We recommend that you refer to the documentation in the following order:

Cisco Access Registrar 5.1 Documentation Guide (OL-25655-01)

http://cisco.com/en/US/docs/net_mgmt/access_registrar/5.1/roadmap/guide/ardocgd.html

Cisco Access Registrar 5.1 Installation and Configuration Guide (OL-25653-01)

http://cisco.com/en/US/docs/net_mgmt/access_registrar/5.1/installation/guide/incfg.html

Cisco Access Registrar 5.1 User Guide (OL-25652-01)

http://cisco.com/en/US/docs/net_mgmt/access_registrar/5.1/user/guide/users.html

Third Party and Open Source Copyright Notices for Cisco Access Registrar 5.1 (OL-25925-01)

http://www.cisco.com/en/US/docs/net_mgmt/access_registrar/5.1/open_source/CAR_5.1_Open_Source_Documentation.pdf

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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